

Computing requirements

To complete by 21/05

Before the computing session, we hope each student has the following items ready:

†: For all downloads, you can find them from here [☐ 20/05 — Preparation](#)

1. **Terminal:** Access to Unix-like terminal (emulator)

- MacOS or any Linux distro
- Windows: **Have WSL installed** (Window-subsystem Linux)
(install with `ws1 --install` and open with `ws1`)

This will re-create an (small) Ubuntu installation on Windows and ensure the commands are compatible with Linux/MacOS

Resource: <https://learn.microsoft.com/en-us/windows/wsl/install>

!! Download† and run the `testing_script.sh` by:

```
bash testing_script.sh
```

Make sure most tests are found/passed.

2. **Git:** Make sure git is installed and accessible

To test, run: `git --version`

Example output: `git version 2.39.3`

3. **SSH:** For those with remote cluster access, ensure one can SSH into the host.

For GW-workstation:

```
ssh -p 1922 albert.einstein@tgfli-s0.phy.cuhk.edu.hk
```

4. **Python:**

- Install [Miniconda](#) or [Anaconda](#)
- Download† the env YAML file
- !! Prepare a working virtual environment:

```
conda env create --file summer_school_env.yaml  
conda activate SummerSchool-2024
```

Alternatively, one can do it explicitly:

```
conda create -n SummerSchool-2024 python=3.11  
conda activate SummerSchool-2024  
conda install numpy matplotlib scipy jupyterlab
```

5. **LaTeX:** Ensure that students have an account ready on Overleaf

(Use CUHK-email will upgrade you to a *professional* account)

Local installation: LaTeX documents can be compiled locally as well.

For MacOS users, [MacTeX](#) is a good choice, while Linux and Windows users could use LiveTeX.